

ILE 'HOME' ENTERED AT 11:26:04 ON 16 MAR 2005

=> file agricola biosis

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

FILE 'AGRICOLA' ENTERED AT 11:26:15 ON 16 MAR 2005

FILE 'BIOSIS' ENTERED AT 11:26:15 ON 16 MAR 2005

Copyright (c) 2005 The Thomson Corporation

=> s soybean and (cotyledon(w)yellow)

L1 0 SOYBEAN AND (COTYLEDON(W) YELLOW)

=> s soybean and (yellow(W)cotyledon)

L2 4 SOYBEAN AND (YELLOW(W) COTYLEDON)

=> s 12 and (tawny(w)pubescence)

L3 0 L2 AND (TAWNY(W) PUBESCENCE)

=> s soybean and dull and yellow and luster and roundup

L4 0 SOYBEAN AND DULL AND YELLOW AND LUSTER AND ROUNDUP

=> s soybean and dull and yellow and luster

L5 0 SOYBEAN AND DULL AND YELLOW AND LUSTER

=> s soybean and dull and yellow

L6 0 SOYBEAN AND DULL AND YELLOW

=> s soybean and yellow

L7 1031 SOYBEAN AND YELLOW

=> s 17 and white

L8 98 L7 AND WHITE

=> s 18 and brown

L9 19 L8 AND BROWN

=> s 19 and tawny

L10 2 L9 AND TAWNY

=> d 110 1-2 ibib

L10 ANSWER 1 OF 2 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2005) on STN

ACCESSION NUMBER: 94:14369 AGRICOLA

DOCUMENT NUMBER: IND20372109

TITLE: Inheritance of red-buff seed coat in soybean

AUTHOR(S): Seo, Y.W.; Specht, J.E.; Graef, G.L.; Graybosch, R.A.

AVAILABILITY: DNAL (64.8 C883)

SOURCE: Crop science, July/Aug 1993. Vol. 33, No. 4. p. 754-758

Publisher: Madison, Wis. : Crop Science Society of America, 1961-

CODEN: CRPSAY; ISSN: 0011-183X

NOTE:

Includes references

PUB. COUNTRY: United States; Wisconsin

DOCUMENT TYPE: Article

FILE SEGMENT: U.S. Imprints not USDA, Experiment or Extension

LANGUAGE: English

L10 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 1993:428143 BIOSIS  
DOCUMENT NUMBER: PREV199396082768  
TITLE: Inheritance of red-buff seed coat in **soybean**.  
AUTHOR(S): Seo, Y. W.; Specht, J. E. [Reprint author]; Graef, G. L.;  
Graybosch, R. A.  
CORPORATE SOURCE: Dep. Agron., Univ. Nebraska, Lincoln, NE 68583-0915, USA  
SOURCE: Crop Science, (1993) Vol. 33, No. 4, pp. 754-758.  
CODEN: CRPSAY. ISSN: 0011-183X.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 22 Sep 1993  
Last Updated on STN: 23 Sep 1993

=> d 110 2 ab

L10 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
AB In **soybean** (*Glycine max* (L.) Merr.), five loci ((I/i-k/i-i/i,  
R/r-m/r, T/t, W1/w1, O/o) interact to produce seed coat and/or hilum color  
phenotypes of gray (G), yellow (Y), black (B1), imperfect black  
(Ib), brown (Br), striped brown-black, red-  
brown (Rbr), or buff (Bf). The T/t and W1/w1 loci also condition  
tawny/gray pubescence and purple/white flowers,  
respectively. T236, a white-flowered gray-pubescent accession  
in the **soybean** genetic collection, has an unusual red-buff (Rbf)  
seed coat. The genetic relationship of Rbf to the other seed coat colors  
was not known. To evaluate this relationship, T236 was mated to six  
**soybean** lines of known genotype relative to the five loci. F-2  
individuals were classified as to flower, pubescence, seed coat, and hilum  
color. In all crosses, only F-2 plants with white flowers, gray  
pubescence, and an R- genotype produced Rbf seed coats or hilas. The F-2  
segregation ratios were not compatible with an inheritance model for Rbf  
that invoked allelic segregation at a sixth locus. Indeed, Rbf seed coat  
seemed to be conditioned by a new allele at the T/t locus, symbolized as  
t-r. While there was no perceptible difference in the gray pubescence  
phenotypes conditioned by the t and t-r alleles, the t-r allele was  
detectable in an R-w/w1 genetic background, where the allelic series  
T/t-r/t produced the seed coat color phenotypes of B1/Rbf/Bf (in  
left-to-right dominance-recessiveness order). In all other backgrounds  
(i.e., R-W1-, rrW1-, and rrw1w1), the seed coat colors produced by t and  
t-r were identical. The currently accepted model for the inheritance of  
anthocyanidin pigments in the **soybean** seed coat is that: (i) R  
necessary for anthocyanidin production, (ii) T is needed for  
dihydroxylation of the B-ring, (iii) W1 is needed for trihydroxylation of  
the B-ring. Our postulation that the Rbf seed coat phenotype requires an  
R-t-r-w1w1 genotype is consistent with this theory. It is also consistent  
with the report that pelargonidin, a monohydroxylated B-ring  
anthocyanidin, is the predominant pigment in the Rbf seed coats of strain  
T236.

=>

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 10:44:09 ON 16 MAR 2005

FILE 'AGRICOLA' ENTERED AT 10:44:17 ON 16 MAR 2005

FILE 'BIOSIS' ENTERED AT 10:44:17 ON 16 MAR 2005  
Copyright (c) 2005 The Thomson Corporation

=> s schultze d? au  
TERM 'D?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED  
COMMAND INTERRUPTED  
If this message appears repeatedly, please notify the Help Desk.  
Enter "HELP STN" for information on contacting the nearest STN Help  
Desk by telephone or via SEND in the STNMAIL file.

=> s schultze d? /au  
L1 64 SCHULTZE D?

=> s 11 and soybean  
L2 12 L1 AND SOYBEAN

=> S 12 AND 0509236  
T-3 0 12 AND 0509236

=> s 12 and roundup  
I-4 0 12 AND ROUNDUP

=> s 12 and cultivar

=> s 15 and cotelydon(w) color

=> s 15 and cotyledon(w) color

=> d 15 1-12 ti

L5 ANSWER 1 OF

L5 ANSWER 2 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

L5 ANSWER 3 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ANSWER 4 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on CTN

II Soybean cultivar 19705120.

TI Soybean cultivar S010336.

L5 ANSWER 6 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI **Soybean cultivar S010351.**

L5 ANSWER 7 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI **Soybean cultivar S010346.**

L5 ANSWER 8 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI **Soybean cultivar 0332119.**

L5 ANSWER 9 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI **Soybean cultivar 0332123.**

L5 ANSWER 10 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI **Soybean cultivar B3491.**

L5 ANSWER 11 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI **Soybean cultivar B0591.**

L5 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI **Soybean cultivar B0592.**

=> d 15 1-12 ibib

L5 ANSWER 1 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2005:21554 BIOSIS  
DOCUMENT NUMBER: PREV200500024757  
TITLE: **Soybean cultivar 19704230.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6828486 December 07, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 Dec 2004  
Last Updated on STN: 29 Dec 2004

L5 ANSWER 2 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2005:21553 BIOSIS  
DOCUMENT NUMBER: PREV200500024755  
TITLE: **Soybean cultivar 0332132.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6828484 December 07, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 Dec 2004  
Last Updated on STN: 29 Dec 2004

L5 ANSWER 3 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2005:21552 BIOSIS  
DOCUMENT NUMBER: PREV200500024753  
TITLE: **Soybean cultivar S010356.**

AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6828482 December 07, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 Dec 2004  
Last Updated on STN: 29 Dec 2004

L5 ANSWER 4 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2005:21469 BIOSIS  
DOCUMENT NUMBER: PREV200500024758  
TITLE: **Soybean cultivar 19705120.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6828488 December 07, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 Dec 2004  
Last Updated on STN: 29 Dec 2004

L5 ANSWER 5 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2005:21468 BIOSIS  
DOCUMENT NUMBER: PREV200500024756  
TITLE: **Soybean cultivar S010336.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6828485 December 07, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 Dec 2004  
Last Updated on STN: 29 Dec 2004

L5 ANSWER 6 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2005:21467 BIOSIS  
DOCUMENT NUMBER: PREV200500024754  
TITLE: **Soybean cultivar S010351.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6828483 December 07, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 Dec 2004  
Last Updated on STN: 29 Dec 2004

L5 ANSWER 7 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2005:21466 BIOSIS  
DOCUMENT NUMBER: PREV200500024752  
TITLE: **Soybean cultivar S010346.**

AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6828481 December 07, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Dec 7 2004) Vol. 1289, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 Dec 2004  
Last Updated on STN: 29 Dec 2004

L5 ANSWER 8 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2005:21215 BIOSIS  
DOCUMENT NUMBER: PREV200500024393  
TITLE: **Soybean cultivar 0332119.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6825403 November 30, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Nov 30 2004) Vol. 1288, No. 5.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 Dec 2004  
Last Updated on STN: 29 Dec 2004

L5 ANSWER 9 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2005:21120 BIOSIS  
DOCUMENT NUMBER: PREV200500024392  
TITLE: **Soybean cultivar 0332123.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6825402 November 30, 2004  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Nov 30 2004) Vol. 1288, No. 5.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 29 Dec 2004  
Last Updated on STN: 29 Dec 2004

L5 ANSWER 10 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 2003:366066 BIOSIS  
DOCUMENT NUMBER: PREV200300366066  
TITLE: **Soybean cultivar B3491.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6590144 July 08, 2003  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (July 8 2003) Vol. 1272, No. 2.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 6 Aug 2003  
Last Updated on STN: 6 Aug 2003

L5 ANSWER 11 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 2003:354773 BIOSIS

DOCUMENT NUMBER: PREV200300354773  
TITLE: **Soybean cultivar B0591.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: ASSIGNEE: Mertec LLC  
PATENT INFORMATION: US 6586660 July 01, 2003  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 1 2003) Vol. 1272, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 30 Jul 2003  
Last Updated on STN: 30 Jul 2003

L5 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2003:302240 BIOSIS  
DOCUMENT NUMBER: PREV200300302240  
TITLE: **Soybean cultivar B0592.**  
AUTHOR(S): **Schultze, Dennis L.** [Inventor, Reprint Author]  
CORPORATE SOURCE: Olivia, MN, USA  
ASSIGNEE: Mertec LLC, West Point, IA, USA  
PATENT INFORMATION: US 6570073 May 27, 2003  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (May 27 2003) Vol. 1270, No. 4.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 25 Jun 2003  
Last Updated on STN: 25 Jun 2003

**Refine Search****Search Results -**

Terms	Documents
L8 and(hilum adj5 tan)	1

Database: **US Pre-Grant Publication Full-Text Database**  
**US Patents Full-Text Database**  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Search:

L9

Refine Search

Recall Text      Clear      Interrupt

**Search History**DATE: Wednesday, March 16, 2005    [Printable Copy](#)    [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
<i>result set</i>			
<u>DB=USPT; PLUR=YES; OP=OR</u>			
<u>L9</u>	L8 and(hilum adj5 tan)	1	<u>L9</u>
<u>L8</u>	L6 and (coat adj5 yellow)	14	<u>L8</u>
<u>L7</u>	L6 and (cotelydon adj4 yellow)	0	<u>L7</u>
<u>L6</u>	L5 and (maturity adj3 0)	14	<u>L6</u>
<u>L5</u>	L1 and soybean and roundup	25	<u>L5</u>
<u>L4</u>	L1 and L3	0	<u>L4</u>
<u>L3</u>	0509236 and soybean	0	<u>L3</u>
<u>L2</u>	0509236	2	<u>L2</u>
<u>L1</u>	schultze-dennis-\$in.	28	<u>L1</u>

END OF SEARCH HISTORY